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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/015709

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H01M8/02, H01M8/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ H01M8/02, H01M8/24

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-133289 A (Aisin Seiki Co., Ltd.), 12 May, 2000 (12.05.00), Figs. 2 to 4 (Family: none)	1, 6
Y	JP 2001-319666 A (Honda Motor Co., Ltd.), 16 November, 2001 (16.11.01), Claim 1; Fig. 2 & US 2002-31698 A1 & CA 2345852 A1	1, 6
Y	JP 2002-15751 A (Aisin Takaoka Co., Ltd.), 18 January, 2002 (18.01.02), Claim 5; Figs. 1 to 5 (Family: none)	1, 6

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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"E" earlier application or patent but published on or after the international filing date

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"&" document member of the same patent family

Date of the actual completion of the international search
07 January, 2005 (07.01.05)

Date of mailing of the international search report
25 January, 2005 (25.01.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-50364 A (NOK Kabushiki Kaisha), 15 February, 2002 (15.02.02), (Family: none)	1-6
A	JP 2003-197249 A (NOK Kabushiki Kaisha), 11 July, 2003 (11.07.03), (Family: none)	1-6
A	JP 10-74530 A (Aisin Takaoka Co., Ltd.), 17 March, 1998 (17.03.98), (Family: none)	1-6
A	JP 2003-197221 A (Honda Motor Co., Ltd.), 11 July, 2003 (11.07.03), & CA 241479 A1 & US 2003-129474 A1	1-6
P, A	JP 2004-185811 A (Toyota Motor Corp.), 02 July, 2004 (02.07.04), (Family: none)	1-6